

# 557.506 (261.1) WEATHER OF NORTH AMERICA AND ADJACENT OCEANS

## NORTH ATLANTIC OCEAN

By F. A. YOUNG

The following table shows the average sea-level pressure for the month at a number of land stations on the coast and islands of the North Atlantic. The readings are for 8 a. m., 75th meridian time, and the departures are only approximate, as the normals were taken from the Pilot Chart and are based on Greenwich mean noon observations, which correspond to those taken at 7 a. m., 75th meridian time.

Station	Average pressure	Departure
	Inches	Inches
St. Johns, Newfoundland	29.91	-0.02
Nantucket	30.05	-0.04
Hatteras	30.13	0.00
Key West	30.07	+0.04
New Orleans	30.19	+0.09
Swan Island	29.88	-0.05
Turks Island	29.97	-0.04
Bermuda	30.12	+0.04
Horta, Azores	30.32	+0.11
Lerwick, Shetland Islands	29.91	+0.21
Valencia, Ireland	29.95	+0.05
London	30.07	+0.12

At Horta the barometric readings ranged from 29.98 inches on the 1st and 7th to 30.50 inches on the 19th, and at Lerwick from 29.11 inches on the 2d to 30.46 inches on the 12th.

November, taken as a whole, was an unusually stormy month on the North Atlantic, especially over the middle and eastern sections of the steamer lanes, where winds of gale force were reported on from six to nine days, which is considerably in excess of the normals as shown on the Pilot Chart. There were also disturbances of tropical origin, described elsewhere in the REVIEW.

Fog was exceptionally rare over the northern division of the ocean, the greatest frequency occurring in the 5-degree square between the 40th and 45th parallels and the 45th and 50th meridians, where it was reported on five days. Fog was reported on four days, however, in the western part of the Gulf of Mexico, which is unusual for that locality, where it is ordinarily rare.

On the 1st and 2d a fairly well-developed disturbance covered a portion of the eastern section of the steamer lanes; this moved rapidly eastward and on the 2d covered the North Sea. At the time of observation on both the 1st and 2d westerly winds of force 7 to 8 were encountered by vessels in the southerly quadrants.

On the 3d there was an area of low pressure in the vicinity of Nova Scotia that traveled northeastward and on the 5th was off the north coast of Newfoundland. On the 3d and 4th westerly to northwesterly gales prevailed over the region between the Bermudas and Newfoundland and on the 4th and 5th winds of gale force were reported by vessels in widely scattered positions.

On the 7th there was a well-developed LOW central about 300 miles north of the Azores that traveled northward, and on the 8th the center was near 50° N. and 30° W.; it then curved sharply toward the east and on the 10th was over the region between the 20th meridian and the coast of Ireland.

Charts VIII to XIII show the conditions from the 9th to 14th, inclusive, when a tropical disturbance prevailed in southern waters, while during the same period the middle and eastern sections of the steamer lanes were

swept by exceptionally severe gales of extra-tropical origin.

On the 8th strong westerly gales prevailed in the Gulf of St. Lawrence, although it was impossible to plot the positions of this disturbance, due to lack of observations.

On the 9th, as shown on Chart VIII, abnormally high pressure prevailed off the New England coast with the crest near Portland, Me. Vessels between the 40th and 45th parallels and the 55th and 60th meridians reported northwesterly gales accompanied by comparatively high pressure.

On the 15th a well-developed disturbance of limited extent was central near 50° N., 45° W.; this moved rapidly eastward and by the 16th the center had reached a position near 50° N., 30° W. A number of vessels in the vicinity of this LOW encountered moderate to strong gales; the storm area on the 15th extended as far south as the 35th meridian and on the 16th extended over the region between the 30th meridian and coast of northern Europe.

On the 16th there was a comparatively slight depression central about midway between Bermuda and Nantucket; this developed rapidly as it moved northeastward along the coast, being in the vicinity of Newfoundland on the 17th and 18th. It reached its greatest intensity on the 17th, the storm area on that date covering the region between the 35th and 45th parallels and 40th meridian and American coast.

From the 19th to 21st moderate weather was the rule over the ocean with the exception of a slight disturbance on the 19th and 20th in the vicinity of the Straits of Gibraltar, and a second of like character on the 20th and 21st in the region between the 40th and 45th parallels and the 50th and 55th meridians. There was also a shallow depression on the 21st in the Gulf of Mexico that afterwards developed into a severe disturbance as it moved northeastward along the American coast, reaching its greatest intensity on the 23d, when moderate to strong gales were encountered between the 25th and 50th parallels and 60th and 75th meridians.

On the 24th there was a LOW over the eastern section of the steamer lanes; it moved slowly eastward, gradually increasing in intensity until the 28th, when the maximum was reached, and from the 26th until the end of the month violent storms were encountered by vessels between the 40th meridian and the European coast.

On the 25th and 26th abnormally high pressure was reported by land stations on the north coast of the Gulf of Mexico, while on the former date the pressure at Swan Island was practically normal, and on the latter slightly above. The steep pressure gradient was responsible for strong northerly winds in the intermediate territory.

On the 25th a shallow depression was central near 33° N., 52° W.; it deepened somewhat on its northward track, the center on the 26th being near St. Johns, Newfoundland.

On the 29th there was a LOW between Hatteras and New York, which increased in intensity rapidly during the next 24 hours, the center on the 30th being near Halifax, Nova Scotia. Beginning on the afternoon of the 29th and extending until the 30th, severe northwesterly gales prevailed over a limited area between the 35th and 40th parallels and 45th and 50th meridians.

Storm logs from vessels that encountered severe weather during the month will be found in the accompanying table, although lack of space prevents giving more than a small fraction of all reports received.

Table of ocean gales and storms

Vessel	Voyage		Position at time of lowest barometer		Gale began	Time of lowest barometer	Gale ended	Lowest barometer (ins.)	Direction of wind when gale began	Direction and force of wind at time of lowest barometer	Direction of wind when gale ended	Highest force of wind and direction	Shifts of wind near time of lowest barometer
	From—	To—	Latitude	Longitude									
North Atlantic Ocean													
Republic, Am. S. S.	England	New York	51 00 N.	18 10 W.	1st	6 a., 1st	8 p., 1st.	29.23	S.	WSW	W	—, 9.	S-WSW-W.
Wieldrecht, Du. S. S.	Pensacola	London	36 10 N.	70 03 W.	3d.	2 a., 3d.	4th.	29.99	NW	NW, 10.	NW	NW, 10.	NW-WNW.
Oscar II, Dan. S. S.	Christiania	New York	53 44 N.	31 48 W.	5th.	Noon, 5th.	5th.	29.34	S.	SSE, 9.	W	SSE, 10.	SSE-SW-W.
West Inskip, Am. S. S.	Antwerp	Boston	42 16 N.	24 11 W.	7th.	4 p., 7th.	8th.	29.59	SE.	SW, 8.	NW	NW, 9.	SE-NW.
Andalusier, Belg. S. S.	Norfolk	Antwerp	46 31 N.	31 44 W.	8th.	4 a., 8th.	9th.	29.73	NW	NW, 8.	SW	NW, 12.	Steady NW.
Independence Hall, Am. S. S.	Havre	New York	49 30 N.	17 30 W.	7th.	4 p., 9th.	10 a., 11th.	29.20	E.	WNW, 9.	WNW	WNW, 11.	SSW-WNW.
Can. Scottish, Br. S. S.	Colon	Quebec	49 00 N.	67 17 W.	8th.	9 a., 8th.	8th.	29.46	W	W	NW	SW, 10.	W-SW-WNW.
Louisiana, Am. S. S.	In West Indies	Galveston	21 38 N.	76 50 W.	9th.	7 p., 9th.	10th.	29.50	N	—, 9.	NW	—, 11.	—
Noorderdijk, Du. S. S.	Rotterdam	Galveston	29 16 N.	67 50 W.	11th.	6 p., 11th.	12th.	29.66	NE	NNE, 9.	NNE	NNE, 9.	Steady NNE.
Bayano, Br. S. S.	Avonmouth	Bermuda	32 13 N.	63 56 W.	10th.	2 p., 13th.	13th.	29.71	ESE	NE, 7.	E	N, 10.	N-NE-E.
Verentia, Br. S. S.	London	Montreal	50 41 N.	31 00 W.	12th.	8 a., 12th.	13th.	28.33	S	S	NW	—, 12.	S-W-NW-N.
Regina, Br. S. S.	Montreal	Liverpool	55 56 N.	32 14 W.	11th.	4 a., 13th.	13th.	29.10	WNW	NW, 7.	SW	NW, 10.	NW-W-SW.
Adriatic, Br. S. S.	New York	Liverpool	48 53 N.	32 40 W.	12th.	6 a., 12th.	12th.	28.70	SSE	NW, 9.	NW	—, 12.	SSE-NE-NW.
Wieldrecht, Du. S. S.	Pensacola	London	48 30 N.	28 50 W.	12th.	11 a., 12th.	12th.	29.08	SW	SW, 12.	NNW	SW, 12.	SW-NW.
Independence Hall, Am. S. S.	Havre	New York	45 45 N.	40 35 W.	14th.	2 p., 15th.	16th.	29.30	WSW	S, 11.	NNW	S, 11.	S-SW.
Cockaponset, Am. S. S.	Galveston	Havre	48 05 N.	31 32 W.	15th.	4 a., 16th.	16th.	29.56	SSW	S, 10.	S	S, 11.	—
River Delaware, Br. S. S.	Gibraltar	New York	34 22 N.	65 10 W.	16th.	1 a., 16th.	16th.	29.62	S.	S, 6.	NNW	SW, 9.	S-W-NNW.
Stanley, Am. S. S.	London	New York	37 30 N.	65 30 W.	17th.	2 a., 17th.	17th.	29.72	NW	NW, 10.	NW	NW, 10.	Steady NW.
Pres. Harding, Am. S. S.	Bremhaven	New York	44 12 N.	47 56 W.	17th.	4 p., 17th.	18th.	29.33	SSE	S, 10.	WSW	S, 10.	S-SW.
Rathlin Head, Br. S. S.	Calcutta	Hamburg	35 53 N.	1 25 W.	19th.	Noon, 19th.	21st.	29.98	NE	ENE, 9.	ENE	ENE, 9.	Steady ENE.
Texas, Dan. S. S.	Galveston	Aalborg, Denmark.	40 40 N.	51 10 W.	20th.	4 a., 20th.	21st.	29.63	NNE	NE, 9.	N	—, 10.	—
W. C. Teagle, Am. S. S.	New York	Tampico	28 22 N.	92 20 W.	20th.	Mid., 20th.	21st.	29.81	N	N, 6.	N	N, 8.	Steady N.
Santa Veronica, Am. S. S.	Mobile	New York	32 28 N.	77 50 W.	22d.	1 a., 22d.	22d.	29.39	SE.	SW, 9.	NW	SW, 10.	SW-NW.
Steel Ranger, Am. S. S.	Port Said	Boston	39 12 N.	65 20 W.	22d.	8 a., 23d.	23d.	29.38	SE.	SE, 10.	NW	SE, 10.	SE-W-NW.
Amasia, Germ. S. S.	Colon	Jacksonville	19 08 N.	85 00 W.	25th.	6 p., 25th.	26th.	29.94	NNE	N	NE	—, 9.	—
Westerdijk, Du. S. S.	Rotterdam	New York	48 32 N.	30 37 W.	24th.	4 p., 24th.	25th.	29.74	NNW	NNW, 7.	N	N, 9.	NNW-N.
Crofton Hall, Am. S. S.	London	New York	42 45 N.	15 00 W.	24th.	10 p., 25th.	27th.	29.25	SSW	N	WSW	N, 9.	N-WNW-NW.
Novian, Br. S. S.	London	Boston	49 47 N.	15 59 W.	26th.	1:30 a., 26th.	26th.	29.22	WNW	NE, 12.	NE	NE, 12.	WNW-ENE-NE.
Rochambeau, Fr. S. S.	Havre	New York	48 30 N.	40 30 W.	27th.	3 p., 27th.	28th.	29.36	W	WNW, 12.	WNW	—, 12.	WSW-W.
West Cheswald, Am. S. S.	London	New Orleans	33 45 N.	52 30 W.	25th.	2 a., 25th.	25th.	29.91	NW	NNW, 12.	NE	NNW, 8.	NW-NNW.
Blair, Am. S. S.	Alexandria	Boston	28 52 N.	69 04 W.	29th.	4 p., 29th.	30th.	29.59	SW	SW, 7.	NW	NW, 12.	SW-WSW.
Zarembo, Am. S. S.	Bordeaux	New York	35 50 N.	65 10 W.	29th.	9 p., 29th.	Dec. 1.	29.60	W	W, 9.	NW	W, 9.	WNW-NW.
North Pacific Ocean													
Broad Arrow, Am. S. S.	Shanghai	San Pedro	39 29 N.	165 10 E.	Oct. 30.	Noon, 3d.	Nov. 4.	29.13	WNW	SE, 10.	WSW	SE, 10.	Variable.
Pres. McKinley, Am. S. S.	Victoria	Yokohama	50 26 N.	177 21 E.	Oct. 31.	12 mid.	Nov. 1.	29.55	N	N, 6.	NNW	N, 8.	N-NNW.
F. J. Luckenbach, Am. S. S.	San Pedro	Galveston	14 50 N.	97 19 W.	Nov. 2.	3p., 2d.	3d.	29.82	E	E, 4.	NE	NE, 8.	E-ENE
Silvercedar, Br. S. S.	do.	Yokohama	34 48 N.	159 50 E.	2d.	4a., 3d.	3d.	29.28	S	S, 9.	W	S, 9.	S-SW-W.
Do.	do.	do.	34 40 N.	161 45 E.	5th.	11p., 5th.	6th.	29.75	S	S, 10.	W	S, 10.	S-W-NNW.
Tejon, Am. S. S.	do.	J e b i s u, Japan.	32 44 N.	167 53 E.	2d.	2a., 3d.	3d.	29.41	SE.	S, 10.	WNW	S, 10.	S-WNW.
Do.	do.	do.	36 47 N.	151 10 E.	5th.	8 p.	5th.	29.76	SSW	SSW, 10.	W	SSW, 10.	SSW-NW.
Do.	do.	do.	40 10 N.	139 E.	9th.	8 p.	9th.	29.44	SSW	SSW, 9.	SW	SSW, 9.	SSW-SW.
Empress of Asia, Br. S. S.	Yokohama	Vancouver	40 47 N.	151 51 E.	3d.	8a., 3d.	4th.	29.11	NW	NW, 10.	W	W, 11.	NW-WNW.
Harold Dollar, Br. S. S.	Shanghai	San Francisco.	41 50 N.	153 50 E.	3d.	4a., 3d.	4th.	27.84	S.	SE, 12.	W	SE, 12.	S-SE-SW-NW.
Iyo Maru, Jap. S. S.	Yokohama	Victoria	46 N.	167 E.	3d.	8 p., 3d.	4th.	28.18	SE	E, 7.	W	—, 10.	NNW-WSW.
Meiko Maru, Jap. S. S.	M e i k e, Japan.	Portland, Oreg.	48 27 N.	132 13 W.	4th.	Noon, 6th.	7th.	29.30	W	NW, 8.	NW	NW, 8.	NW.
Pres. Garfield, Am. S. S.	Honolulu	Kobe	33 36 N.	155 27 E.	10th.	—, 10th.	12th.	29.64	SW	SW	W	SW, 8.	SW-W.
West Jessup, Am. S. S.	Portland	N a g o y a, Japan.	42 56 N.	147 40 E.	10th.	1a., 11th.	12th.	28.60	ESE	SSW, 1.	WNW	WNW, 11.	W-NW.
West Niger, Am. S. S.	Davao, P. I.	Portland	42 43 N.	714 33 E.	13th.	6a., 13th.	14th.	28.97	WSW	WSW, 7.	WNW	WNW, 9.	WSW-N.
Niagara, Br. S. S.	Sydney, Aus.	Vancouver	47 30 N.	126 29 W.	13th.	2 p.	13th.	29.90	SE.	SE, 9.	SE.	SE, 10.	Steady.
Yayoi Maru, Jap. S. S.	Wakamatsu, Japan.	Astoria	50 N.	146 40 W.	15th.	Noon, 15th.	18th.	28.68	SE.	S, 6.	ESE	WNW, 10.	—
Tascalusa, Br. S. S.	Hongkong	San Francisco.	45 22 N.	148 15 W.	15th.	3 p., 16th.	17th.	28.70	SSE	ENE, 7.	SW	W, 10.	Variable
Can. Importer, Br. S. S.	Brisbane	Vancouver	48 N.	126 30 W.	17th.	8 p., 17th.	18th.	29.30	SE.	SE, 9.	S	—, 10.	SE-S.
Hakata Maru, Jap. S. S.	Yokohama	Seattle	49 21 N.	129 50 W.	19th.	11a., 19th.	20th.	29.35	SE.	SE, 9.	SW	—, 10.	SE-SW
Kaga Maru, Jap. S. S.	Victoria	Yokohama	39 45 N.	147 E.	21st.	Noon, 21st.	22d.	29.35	SE.	S, 7.	W	W, 9.	—
George Washington, Nor. M. S.	Balboa	San Pedro	16 16 N.	94 45 W.	22d.	4 p.	22d.	29.80	NNW	N, 9.	N	N, 9.	—
Pres. Madison, Am. S. S.	Yokohama	Seattle	44 20 N.	160 E.	22d.	6a., 22d.	24th.	28.44	SW	W, 6.	W	W, 9.	SW-W.
Africa Maru, Jap. S. S.	do.	Victoria	48 36 N.	179 16 E.	23d.	4a., 25th.	25th.	28.83	WSW	NW, 9.	NW	W, 9.	—
Tejon, Am. S. S.	J e b i s u, Japan.	San Pedro	41 23 N.	153 38 W.	25th.	3 p.	25th.	28.81	S.	S	SSW	—, 9.	S-WSW.
West Himrod, Am. S. S.	Kobe	Seattle	50 10 N.	152 40 W.	25th.	2a., 26th.	26th.	28.04	—	SW, 10.	—	SW, 10.	—
Can. Prospector, Br. S. S.	Vancouver	Boston	13 49 N.	95 44 W.	28th.	3a.	28th.	29.91	E.	NNE, 8.	N	NNE, 8.	E-NE-N.
Edmore, Am. S. S.	Cebu, P. I.	Seattle	47 03 N.	175 20 E.	29th.	2a.	29th.	28.92	E.	ENE, 9.	NW	ENE, 9.	—